T00270" +95606

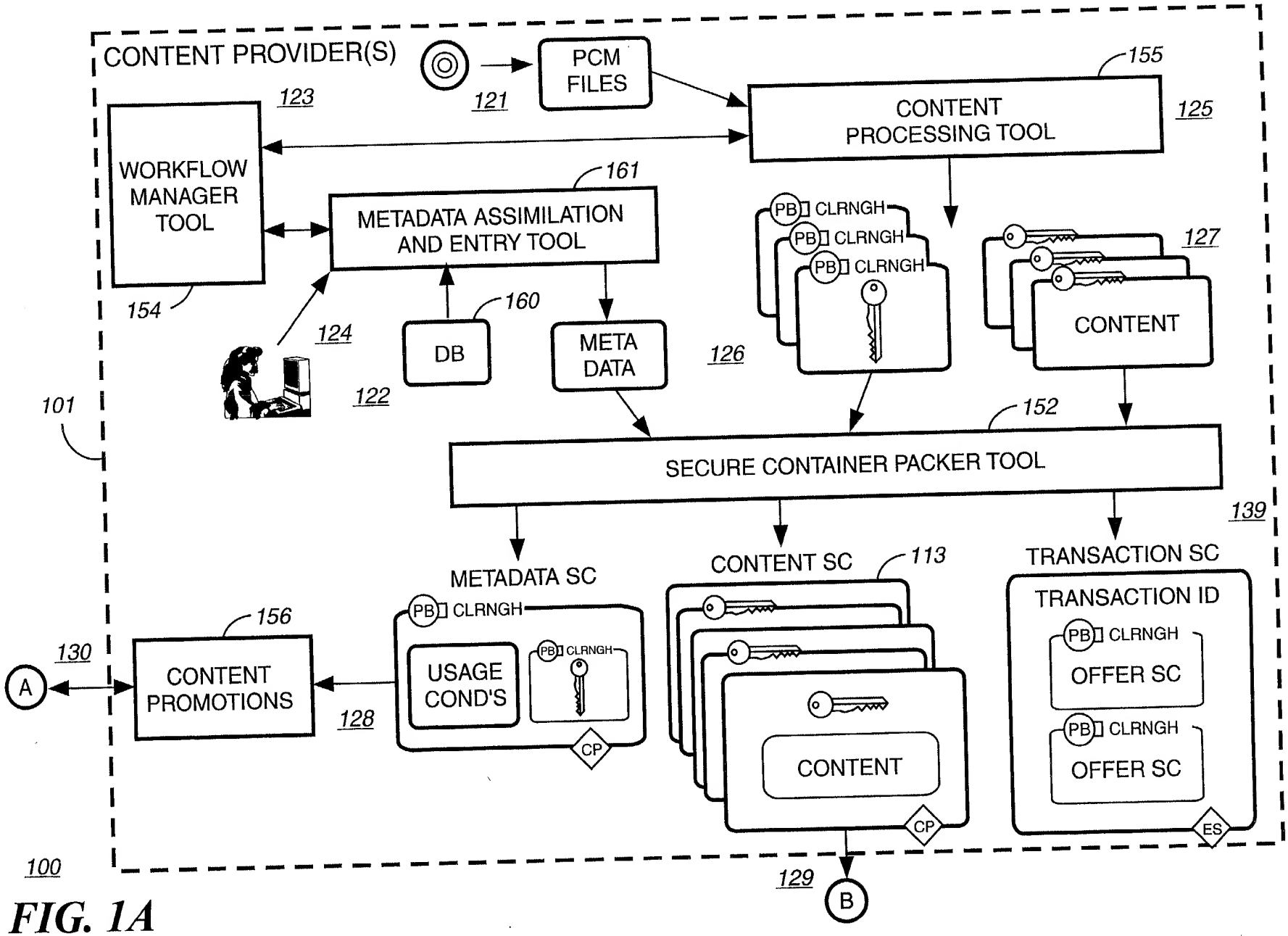


FIG. 1A

T00220 "19560660

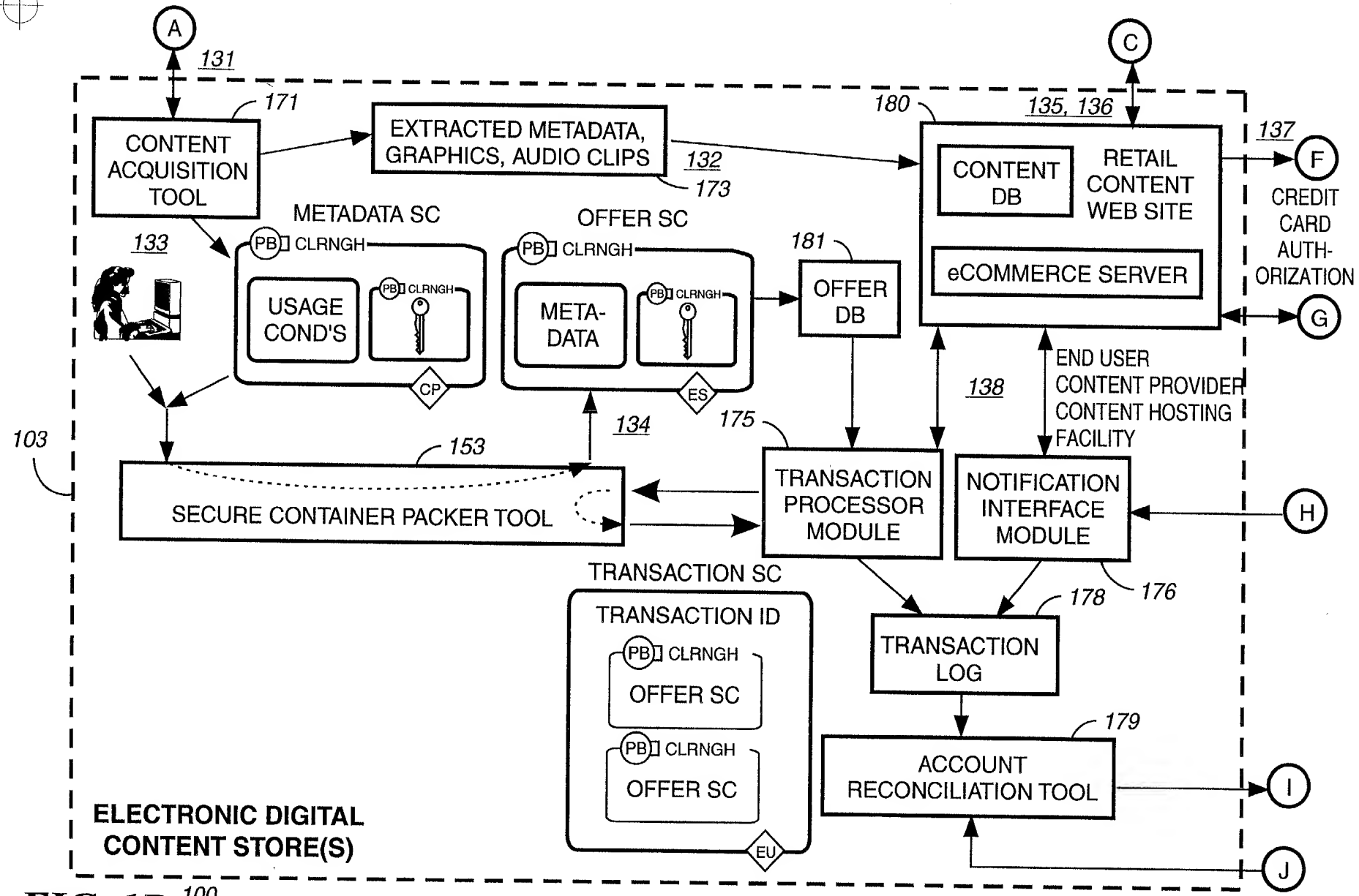


FIG. 1B 100

T0020 "4956068

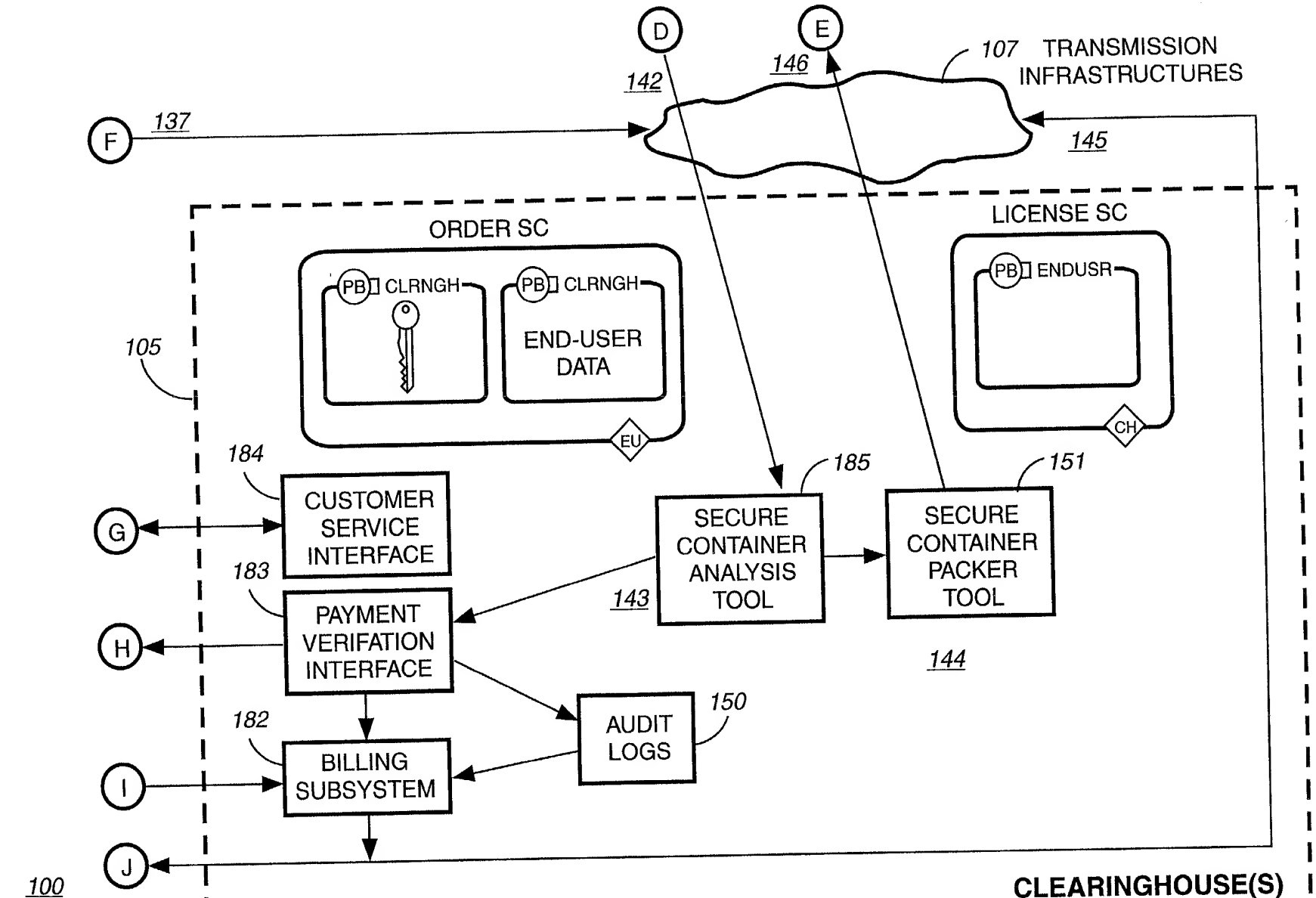
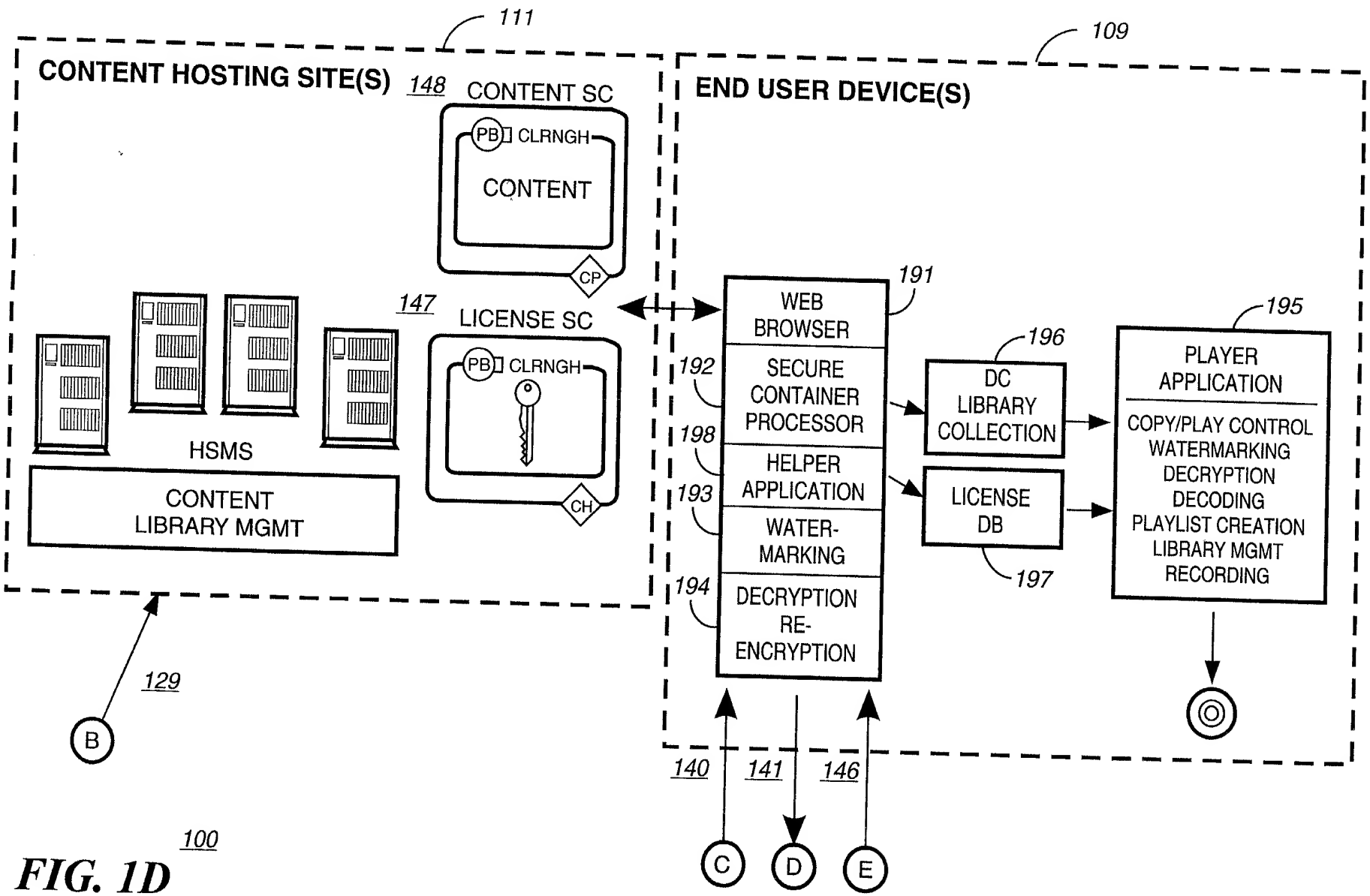


FIG. 1C


111
CONTENT HOSTING SITE(S)
148
CONTENT SC
PB
CLRNGH
CONTENT
CP
147
LICENSE SC
PB
CLRNGH
CH
HSMS
CONTENT
LIBRARY MGMT
129
B
109
END USER DEVICE(S)
191
WEB
BROWSER
192
SECURE
CONTAINER
PROCESSOR
198
HELPER
APPLICATION
193
WATER-
MARKING
194
DECRYPTION
RE-
ENCRYPTION
196
DC
LIBRARY
COLLECTION
LICENSE
DB
197
195
PLAYER
APPLICATION
COPY/PLAY CONTROL
WATERMARKING
DECRYPTION
DECODING
PLAYLIST CREATION
LIBRARY MGMT
RECORDING
140
141
146
C
D
E

100

FIG. 1D

T0024D*19560660

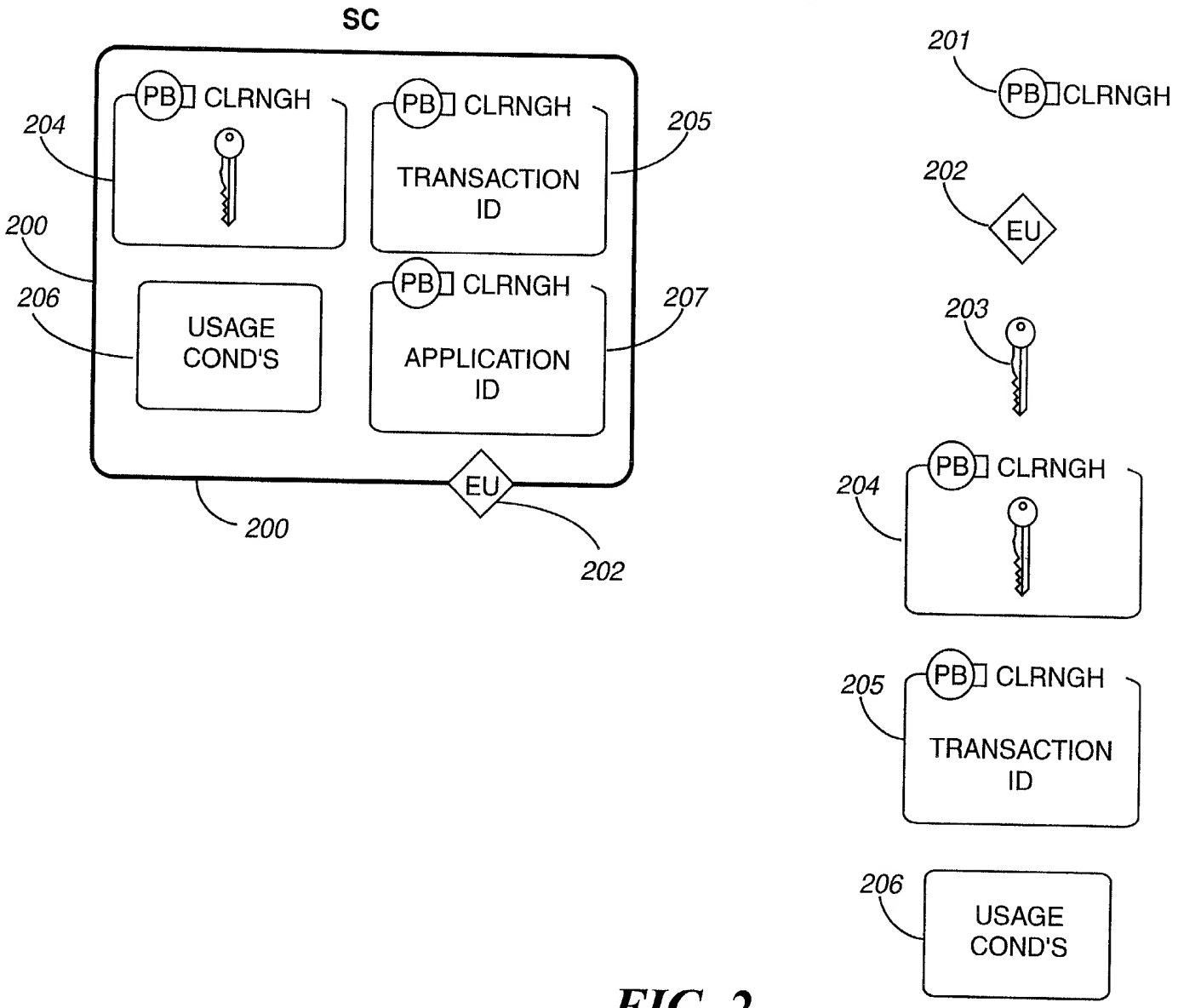


FIG. 2

T0026"0" h9560660

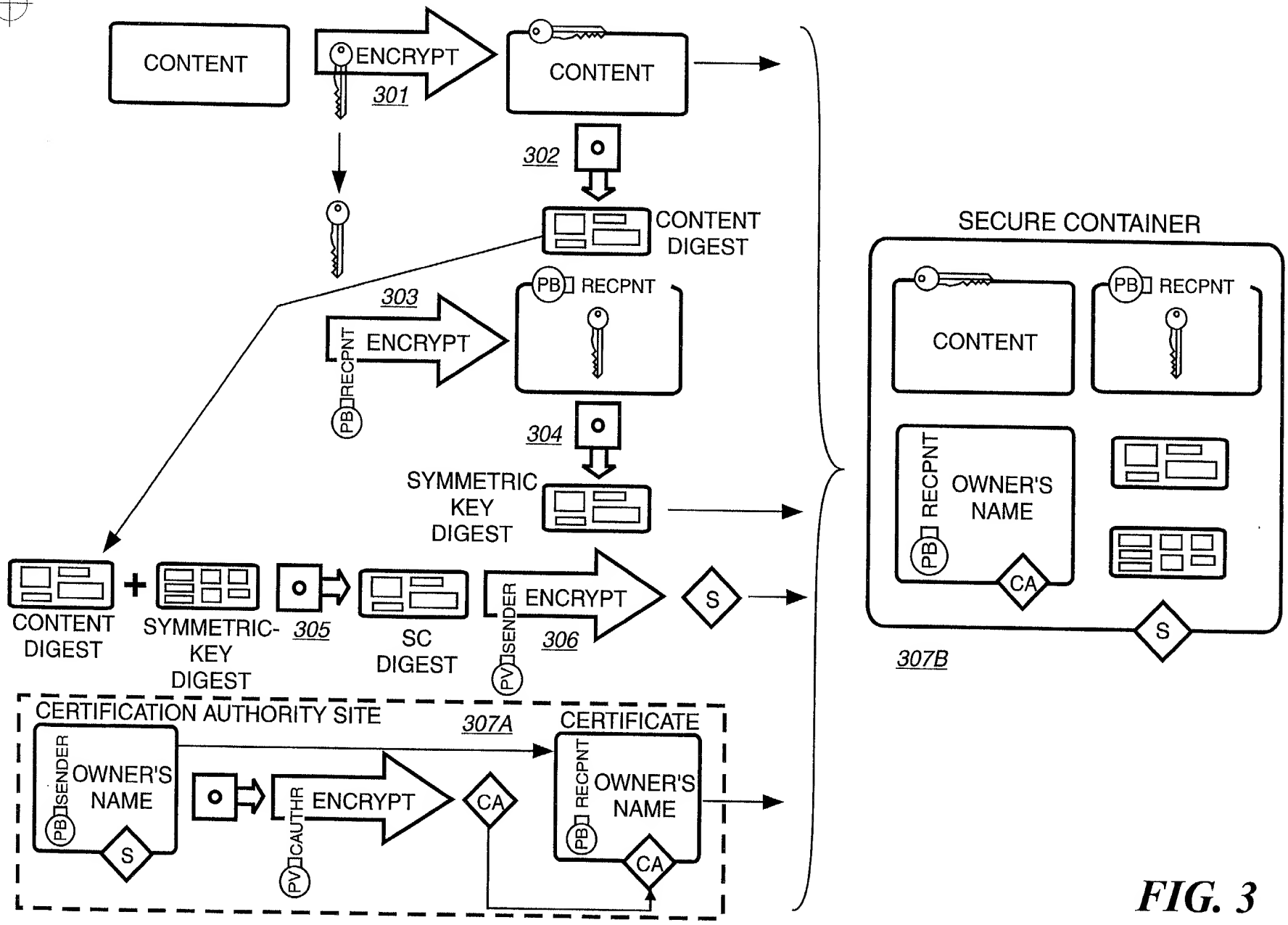


FIG. 3

T0026C0* 19560660

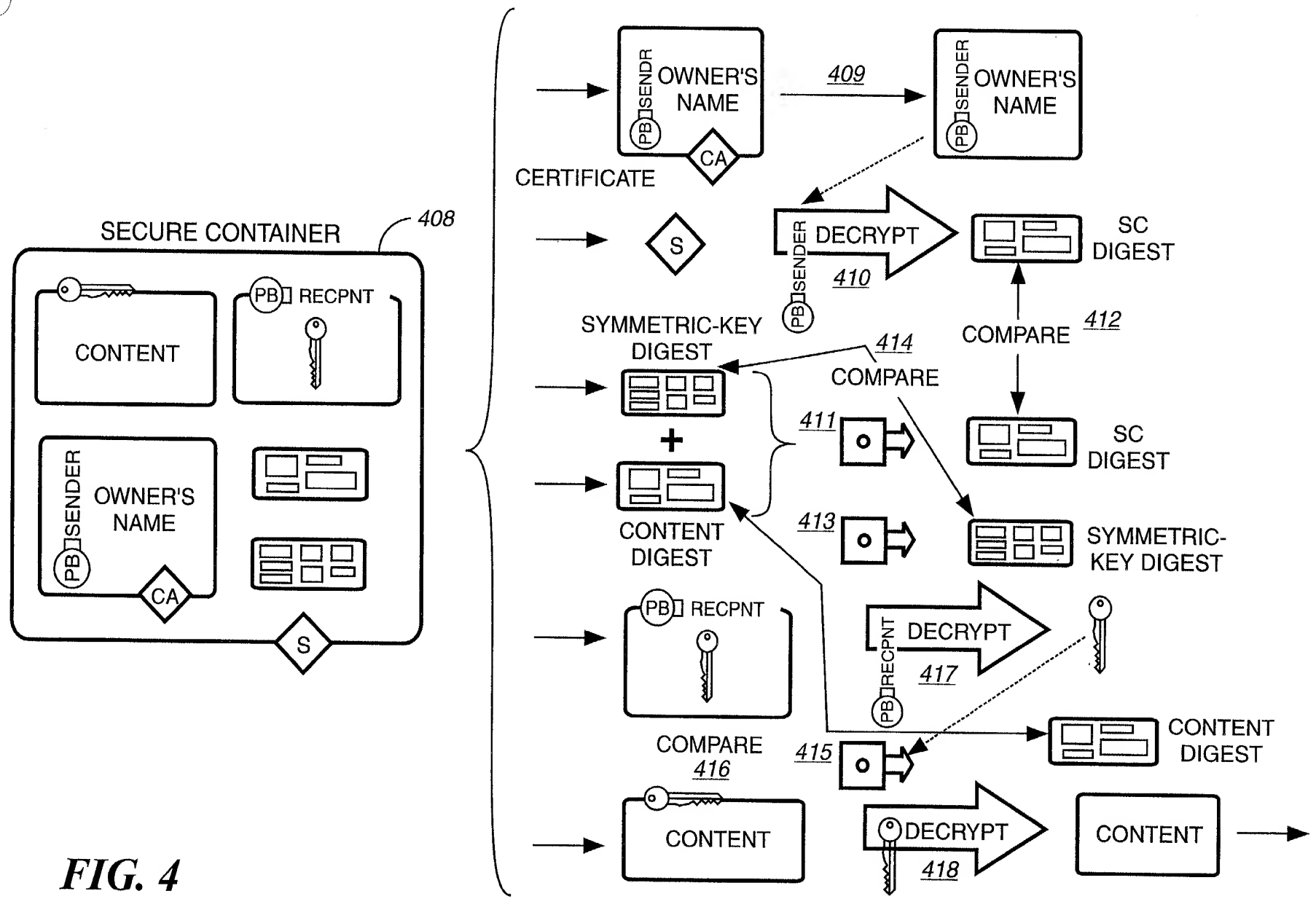


FIG. 4

T00220 "19560660

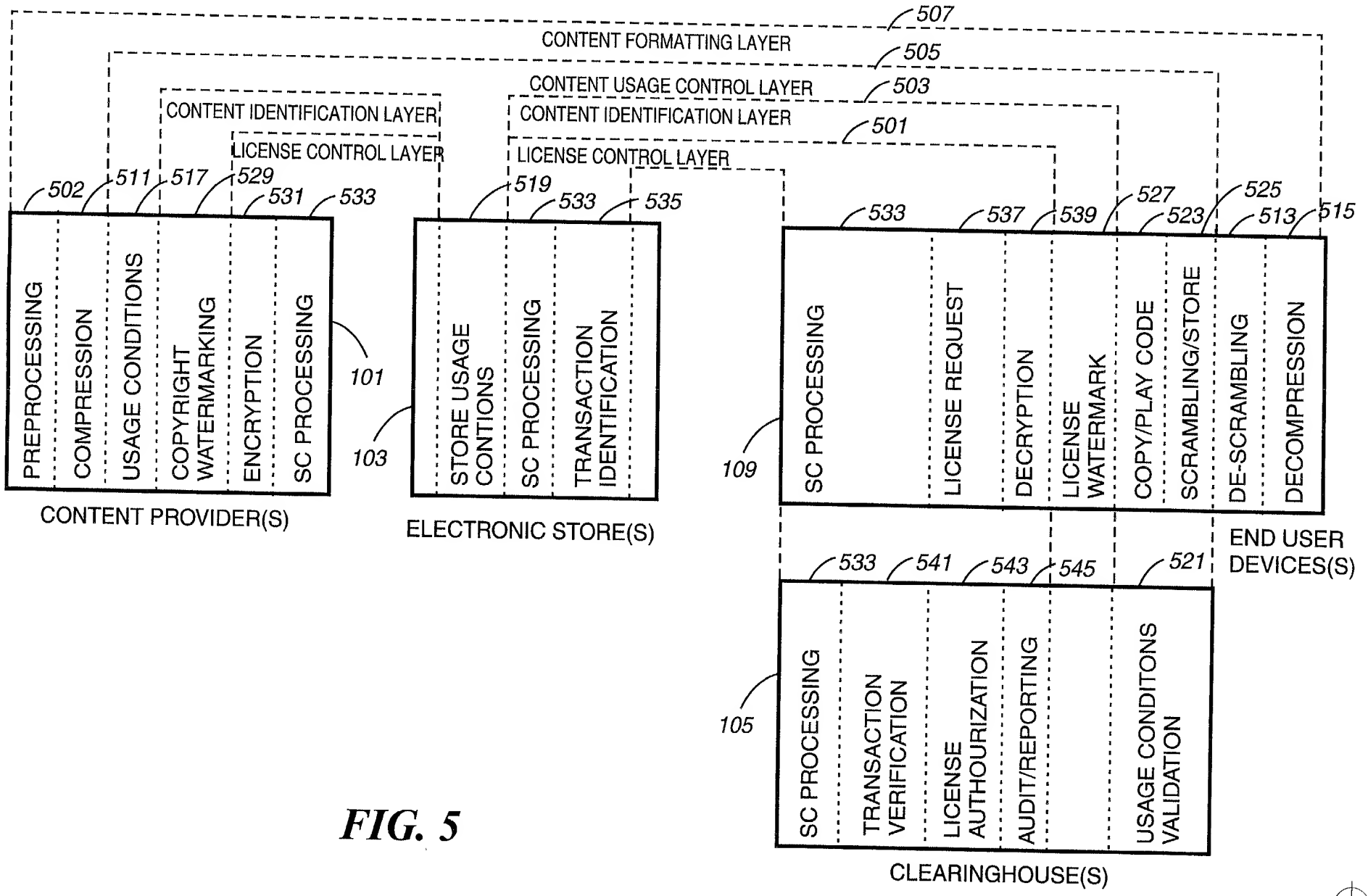


FIG. 5

T0024D" 4956066D

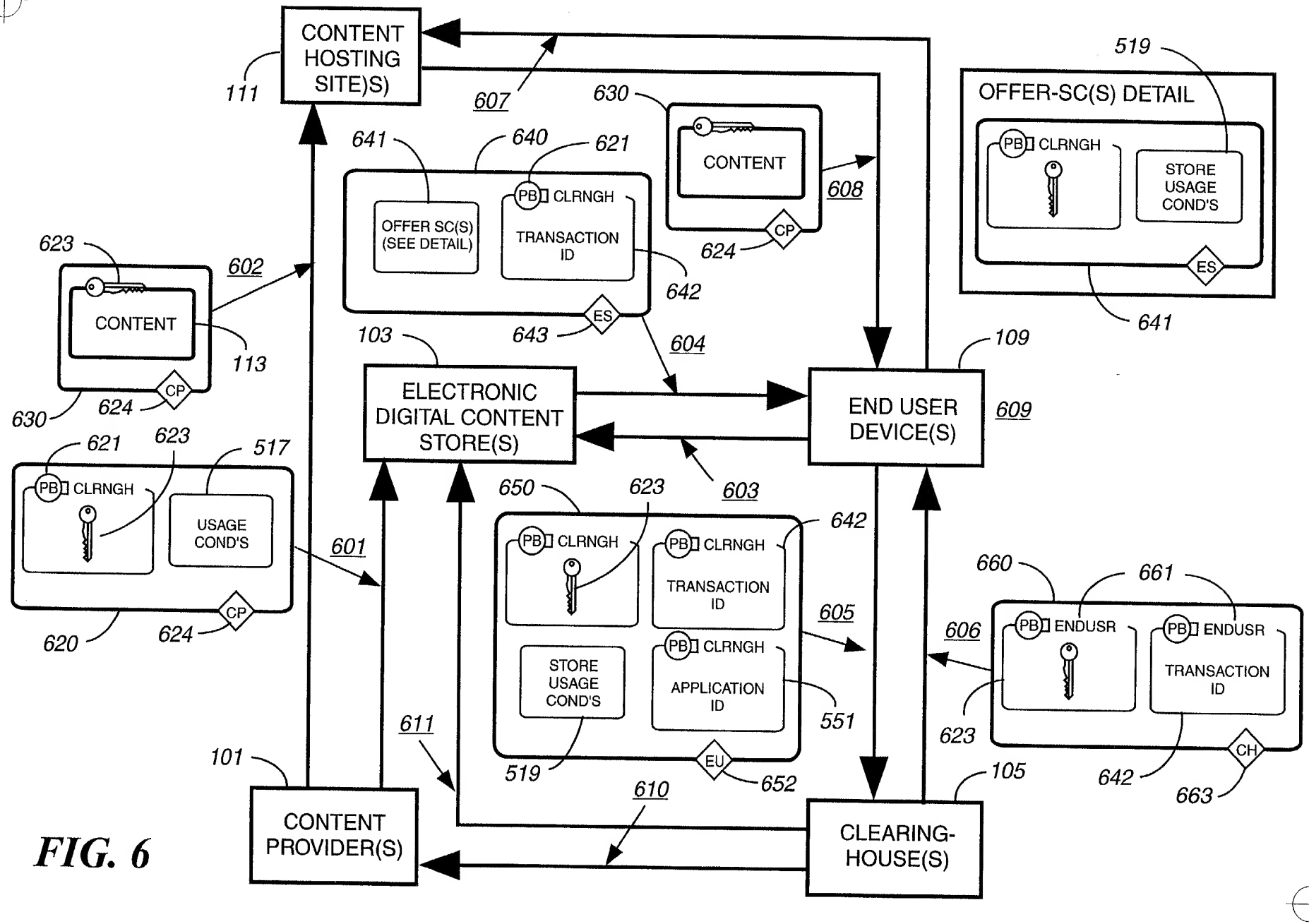
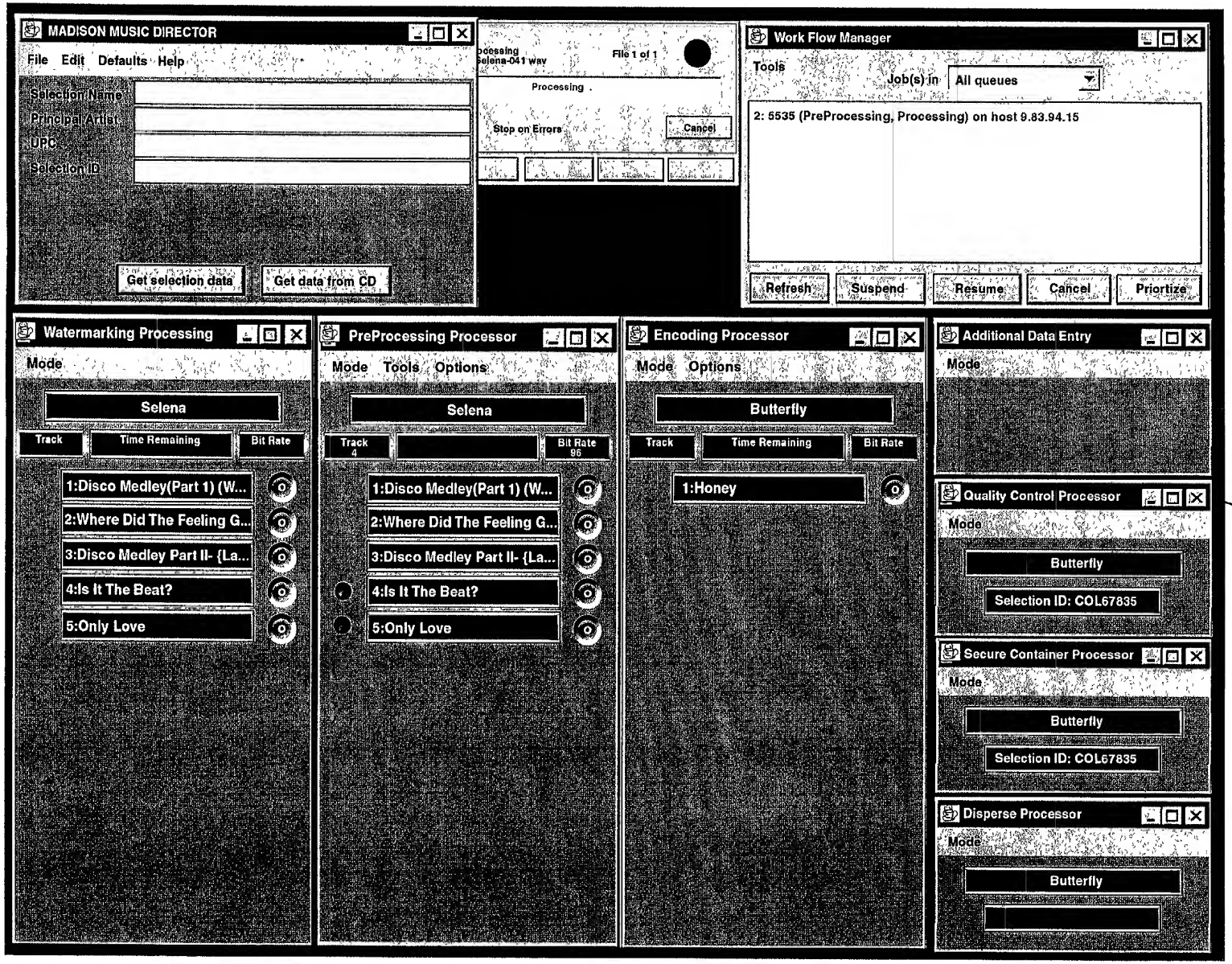


FIG. 6


MADISON MUSIC DIRECTOR
File Edit Defaults Help
Selection Name
Principal Artist
UPC
Selection ID
Get selection data
Get data from CD
Processing
Selena-041.wav
File 1 of 1
Processing .
Stop on Errors
Cancel
Work Flow Manager
Tools
Job(s) in
All queues
2: 5535 (PreProcessing, Processing) on host 9.83.94.15
Refresh
Suspend
Resume
Cancel
Priortize
Watermarking Processing
Mode
Selena
Track
Time Remaining
Bit Rate
1:Disco Medley(Part 1) (W...
2:Where Did The Feeling G...
3:Disco Medley Part II- {La...
4:Is It The Beat?
5:Only Love
PreProcessing Processor
Mode Tools Options
Selena
Track 4
Bit Rate 96
1:Disco Medley(Part 1) (W...
2:Where Did The Feeling G...
3:Disco Medley Part II- {La...
4:Is It The Beat?
5:Only Love
Encoding Processor
Mode Options
Butterfly
Track
Time Remaining
Bit Rate
1:Honey
Additional Data Entry
Mode
Quality Control Processor
Mode
Butterfly
Selection ID: COL67835
Secure Container Processor
Mode
Butterfly
Selection ID: COL67835
Disperse Processor
Mode
Butterfly

700

FIG. 7

T00220 "h3560660

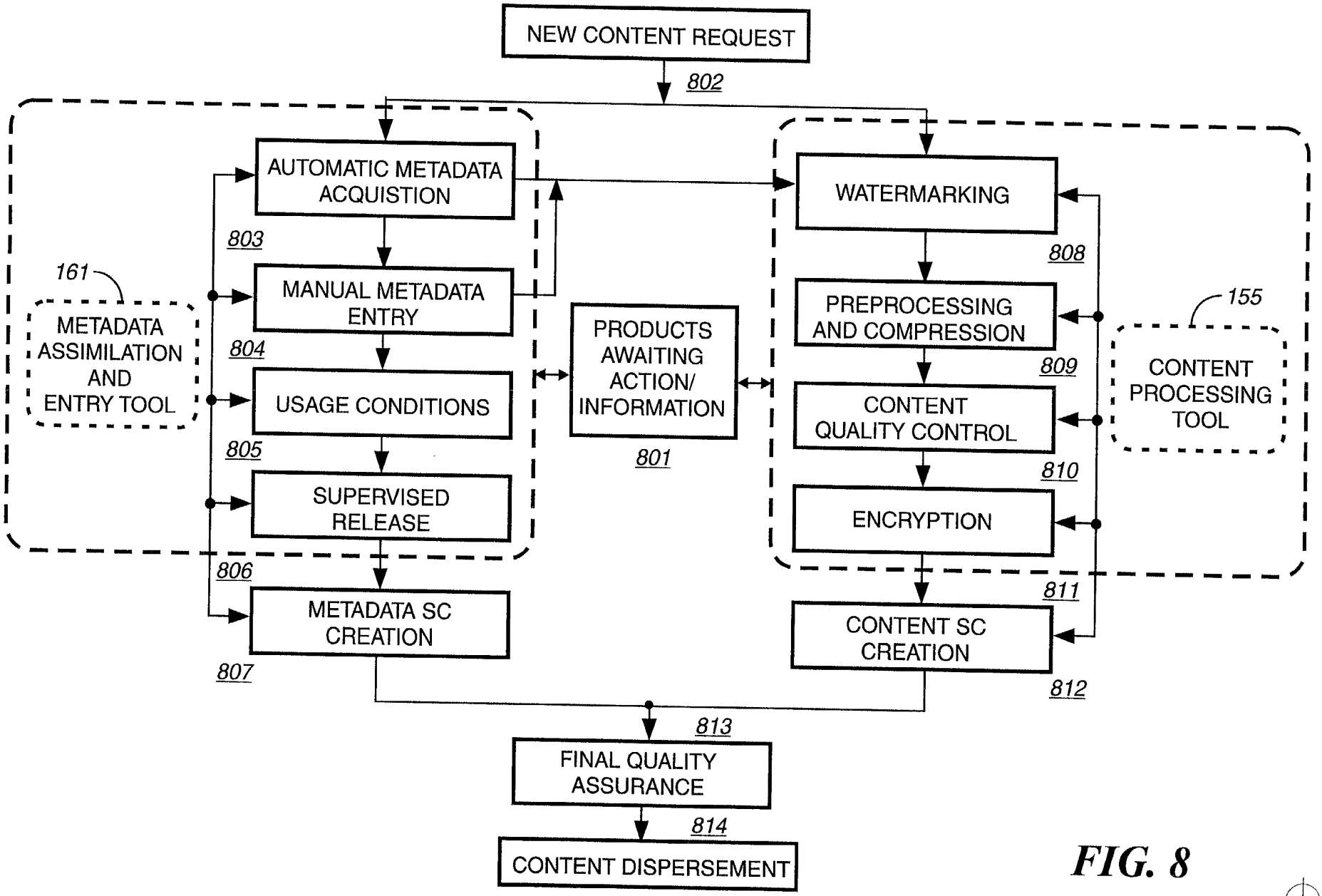


FIG. 8

T0D2Z0 "19S60650

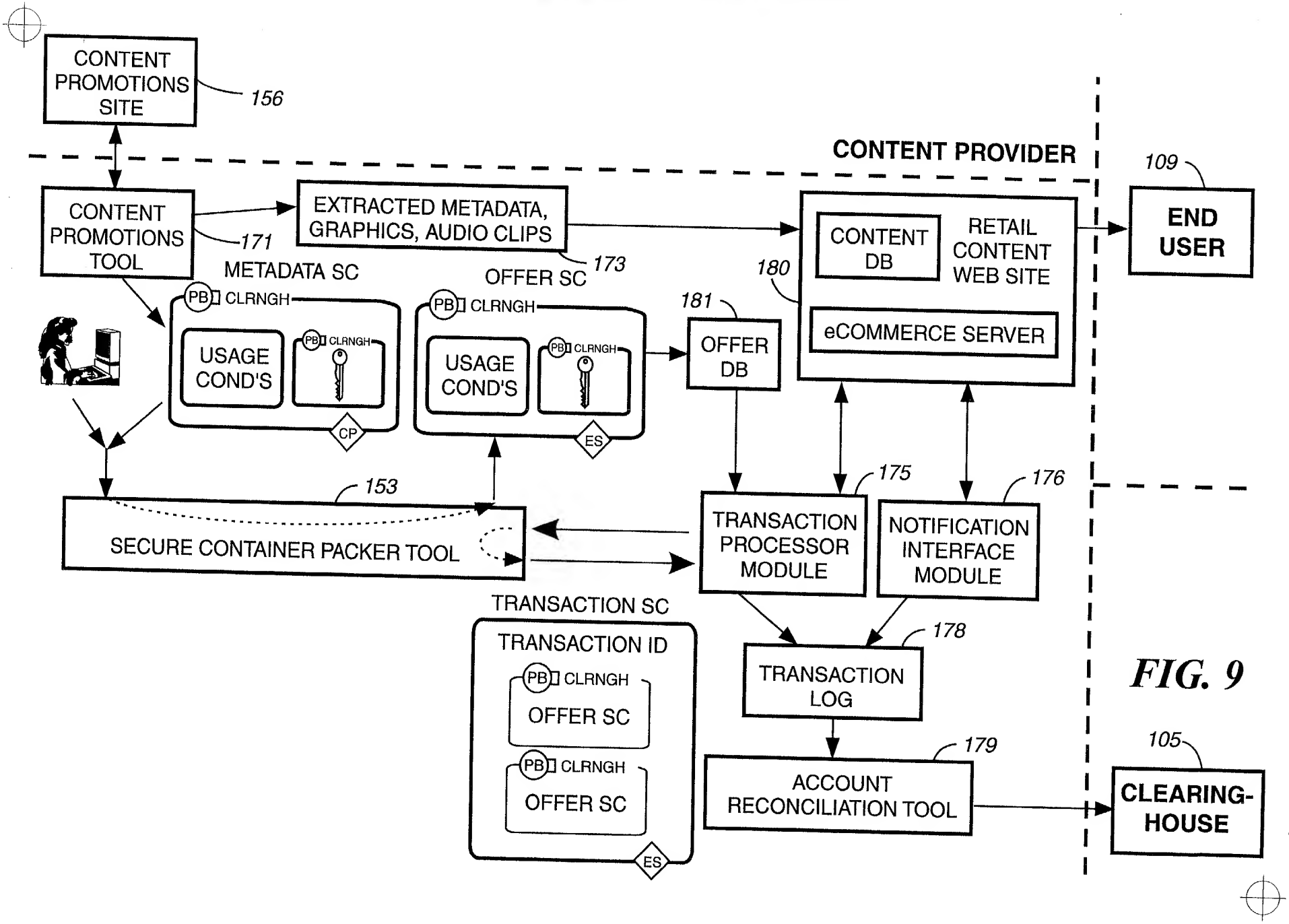


FIG. 9

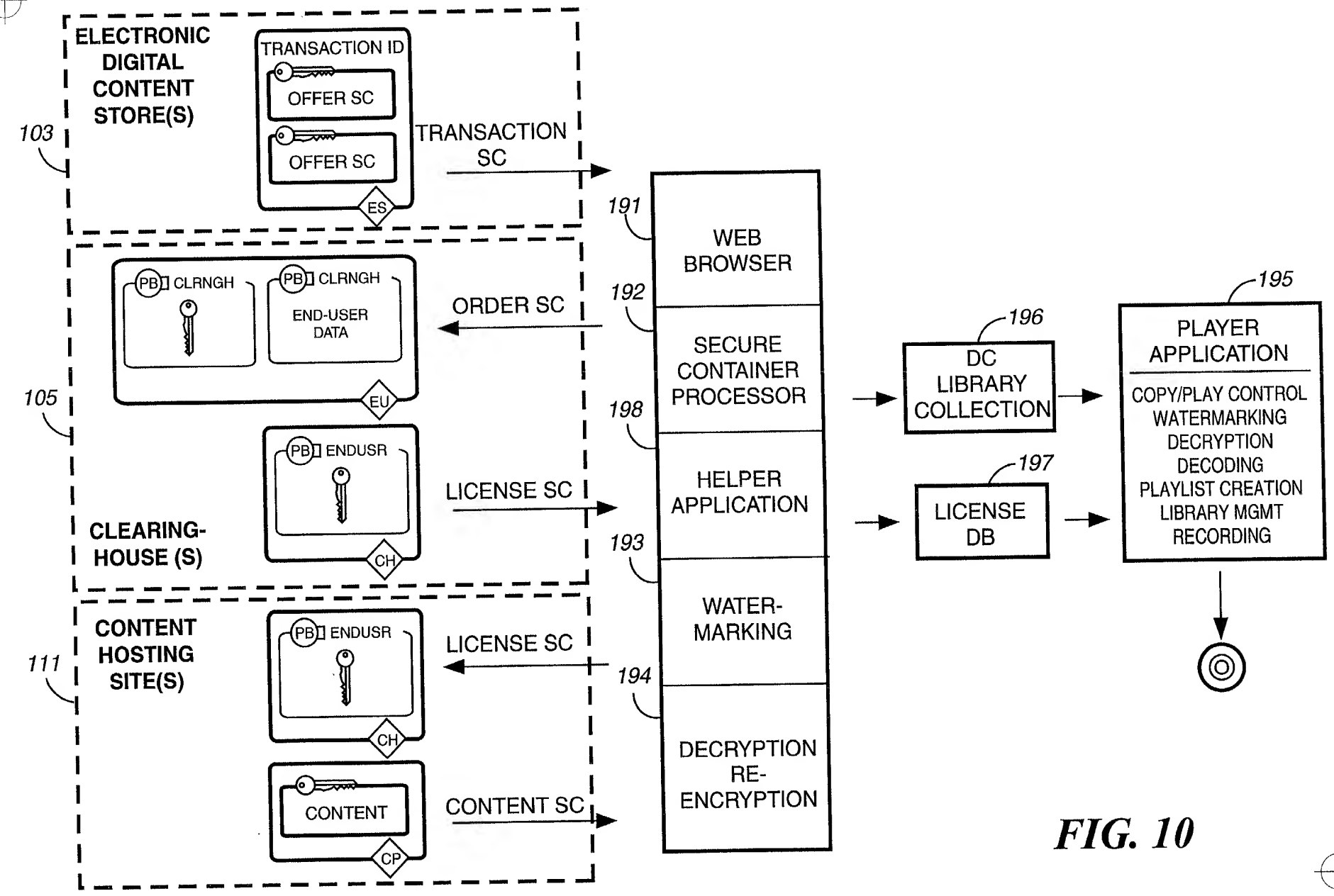

ELECTRONIC DIGITAL CONTENT STORE(S)
103
TRANSACTION ID
OFFER SC
OFFER SC
ES
TRANSACTION SC
PB CLRNGH
PB CLRNGH
END-USER DATA
EU
ORDER SC
105
PB ENDUSR
CH
LICENSE SC
CLEARING-HOUSE (S)
CONTENT HOSTING SITE(S)
111
PB ENDUSR
CH
LICENSE SC
CONTENT
CP
CONTENT SC
191
WEB BROWSER
192
SECURE CONTAINER PROCESSOR
198
HELPER APPLICATION
193
WATER-MARKING
194
DECRYPTION RE-ENCRYPTION
196
DC LIBRARY COLLECTION
197
LICENSE DB
195
PLAYER APPLICATION
COPY/PLAY CONTROL
WATERMARKING
DECRYPTION
DECODING
PLAYLIST CREATION
LIBRARY MGMT
RECORDING

FIG. 10

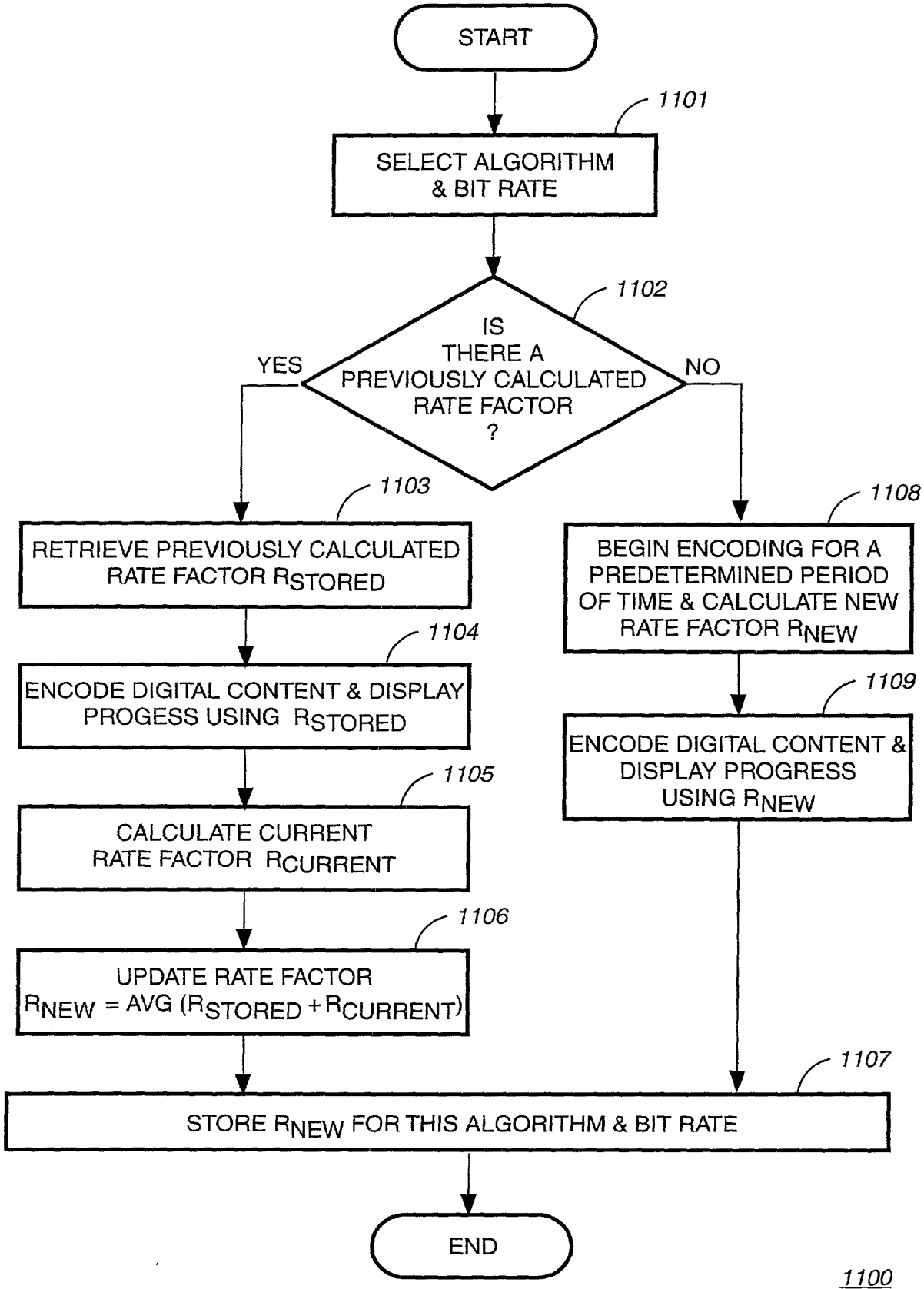

START
1101
SELECT ALGORITHM & BIT RATE
1102
IS THERE A PREVIOUSLY CALCULATED RATE FACTOR ?
YES
NO
1103
RETRIEVE PREVIOUSLY CALCULATED RATE FACTOR R_{STORED}
1104
ENCODE DIGITAL CONTENT & DISPLAY PROGESS USING R_{STORED}
1105
CALCULATE CURRENT RATE FACTOR $R_{CURRENT}$
1106
UPDATE RATE FACTOR $R_{NEW} = AVG (R_{STORED} + R_{CURRENT})$
1108
BEGIN ENCODING FOR A PREDETERMINED PERIOD OF TIME & CALCULATE NEW RATE FACTOR R_{NEW}
1109
ENCODE DIGITAL CONTENT & DISPLAY PROGRESS USING R_{NEW}
1107
STORE R_{NEW} FOR THIS ALGORITHM & BIT RATE
END
1100

FIG. 11

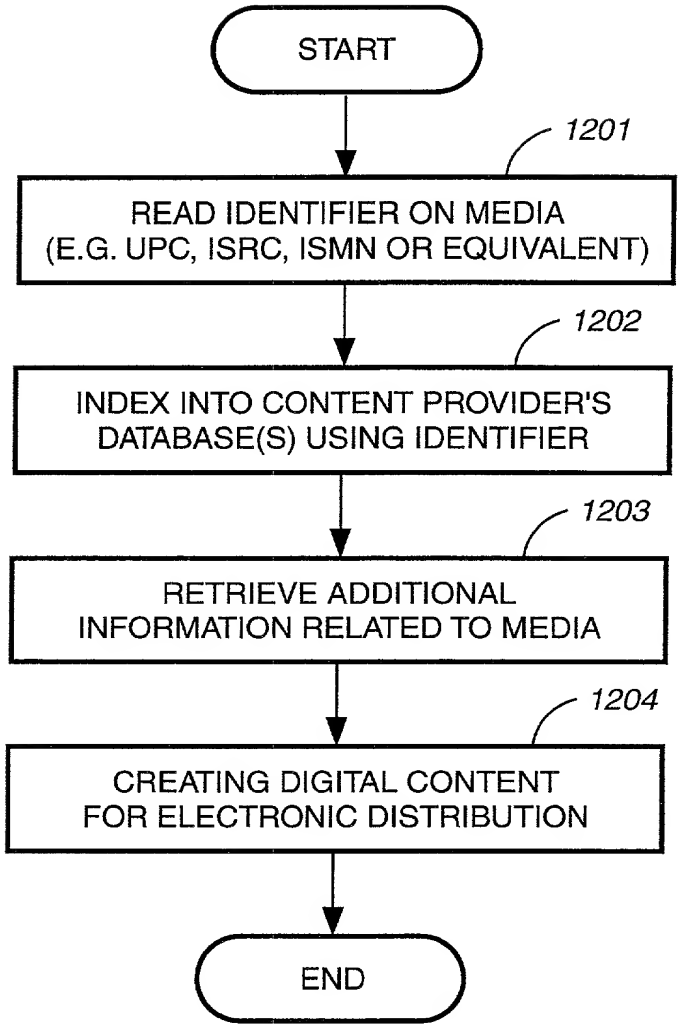

START
1201
READ IDENTIFIER ON MEDIA
(E.G. UPC, ISRC, ISMN OR EQUIVALENT)
1202
INDEX INTO CONTENT PROVIDER'S
DATABASE(S) USING IDENTIFIER
1203
RETRIEVE ADDITIONAL
INFORMATION RELATED TO MEDIA
1204
CREATING DIGITAL CONTENT
FOR ELECTRONIC DISTRIBUTION
END

FIG. 12

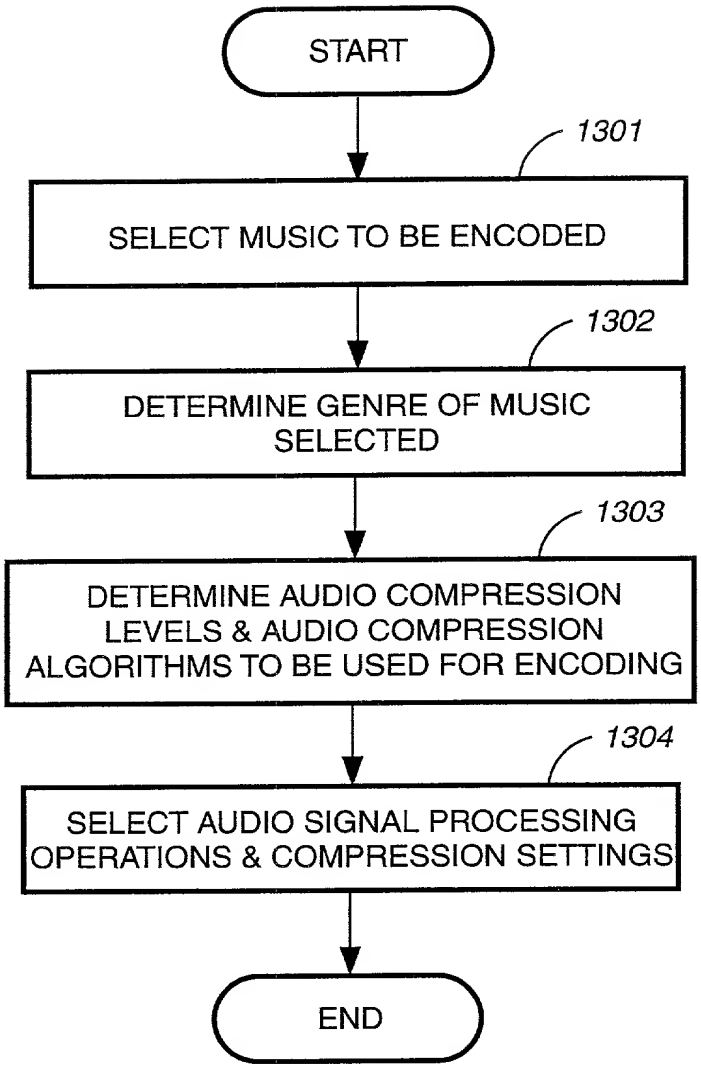
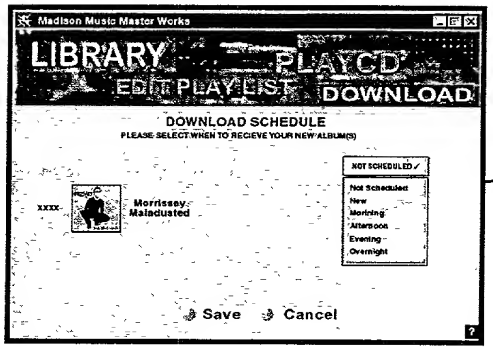

START
1301
SELECT MUSIC TO BE ENCODED
1302
DETERMINE GENRE OF MUSIC SELECTED
1303
DETERMINE AUDIO COMPRESSION LEVELS & AUDIO COMPRESSION ALGORITHMS TO BE USED FOR ENCODING
1304
SELECT AUDIO SIGNAL PROCESSING OPERATIONS & COMPRESSION SETTINGS
END

FIG. 13

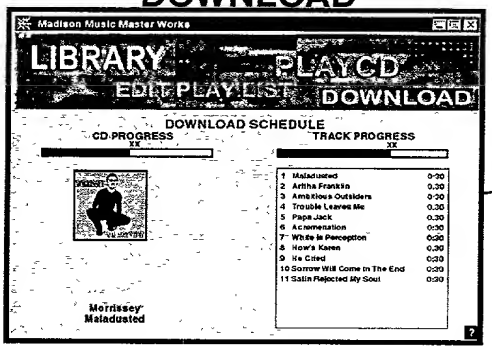
SCHEDULE DOWNLOAD



1401

USER STARTS A DOWNLOAD

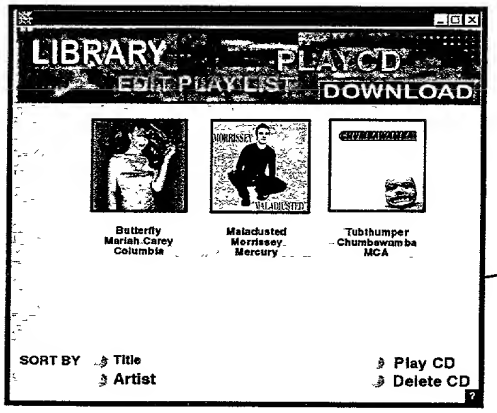
DOWNLOAD



1402

DOWNLOAD COMPLETES

LIBRARY



1403

FIG. 14

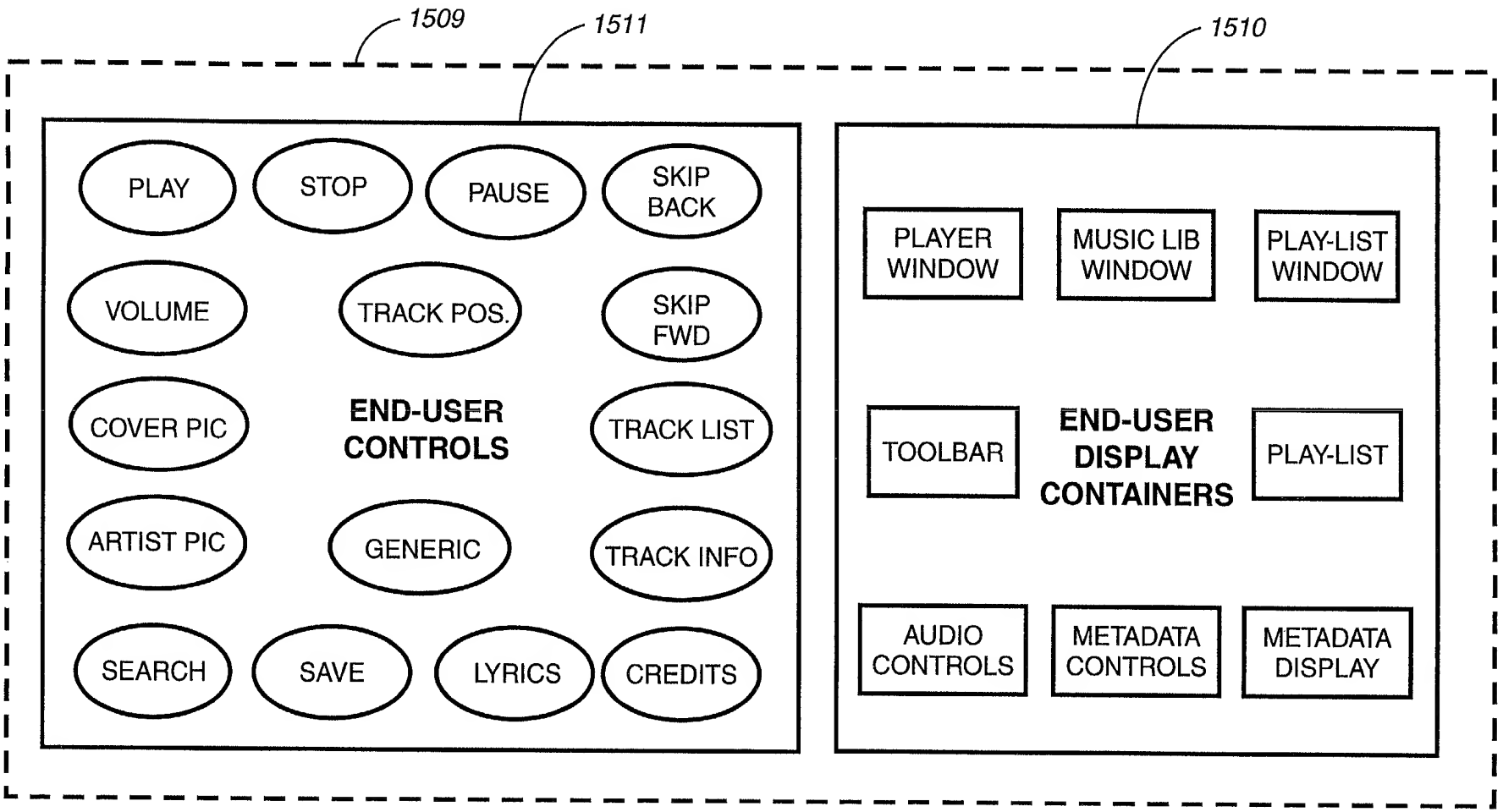

1509
1511
1510
PLAY
STOP
PAUSE
SKIP BACK
VOLUME
TRACK POS.
SKIP FWD
COVER PIC
END-USER CONTROLS
TRACK LIST
ARTIST PIC
GENERIC
TRACK INFO
SEARCH
SAVE
LYRICS
CREDITS
PLAYER WINDOW
MUSIC LIB WINDOW
PLAY-LIST WINDOW
TOOLBAR
END-USER DISPLAY CONTAINERS
PLAY-LIST
AUDIO CONTROLS
METADATA CONTROLS
METADATA DISPLAY

FIG. 15A

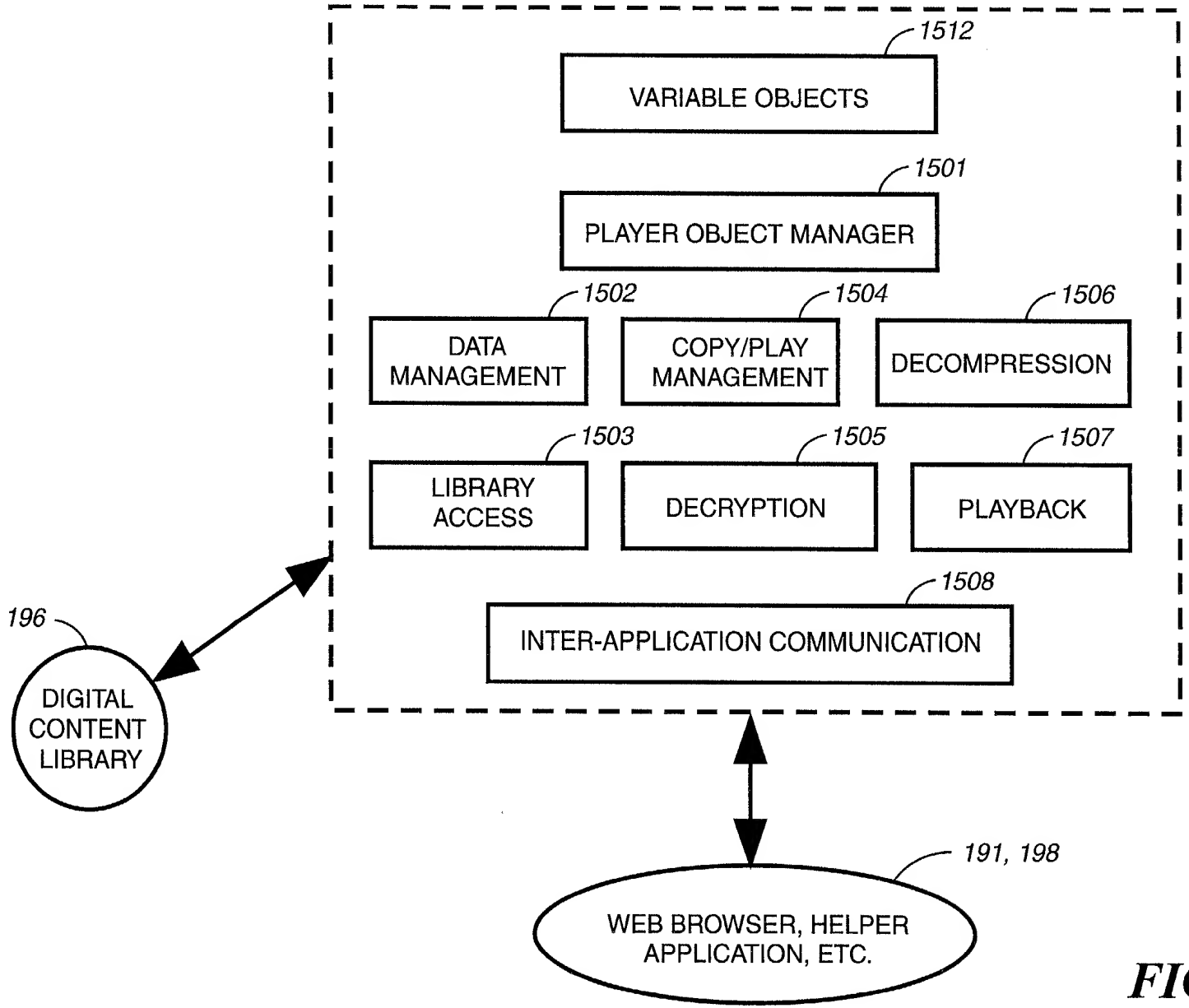

1512
VARIABLE OBJECTS
1501
PLAYER OBJECT MANAGER
1502
DATA MANAGEMENT
1504
COPY/PLAY MANAGEMENT
1506
DECOMPRESSION
1503
LIBRARY ACCESS
1505
DECRYPTION
1507
PLAYBACK
1508
INTER-APPLICATION COMMUNICATION
196
DIGITAL CONTENT LIBRARY
191, 198
WEB BROWSER, HELPER APPLICATION, ETC.

FIG. 15B

T00220 "h9560660

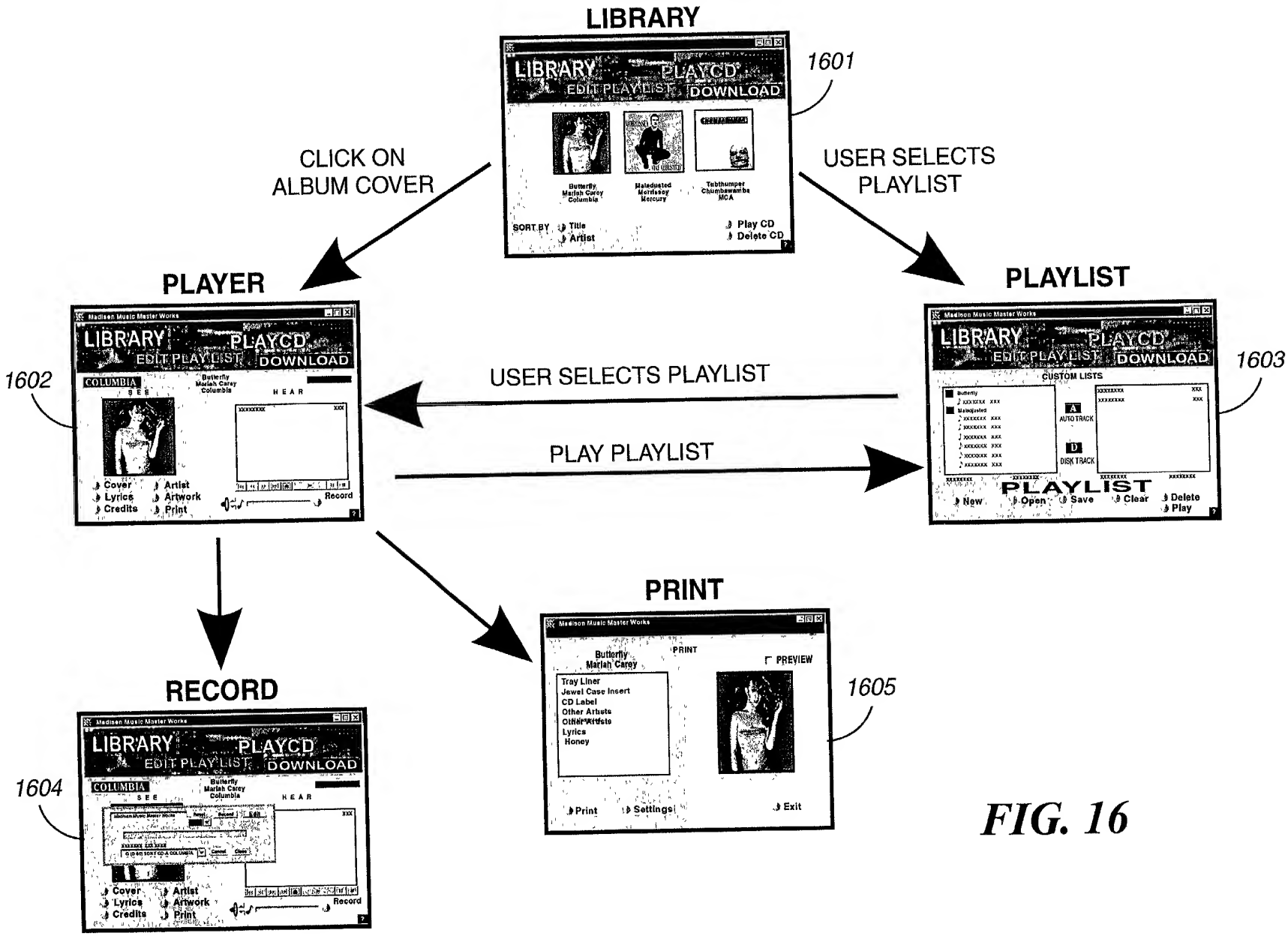
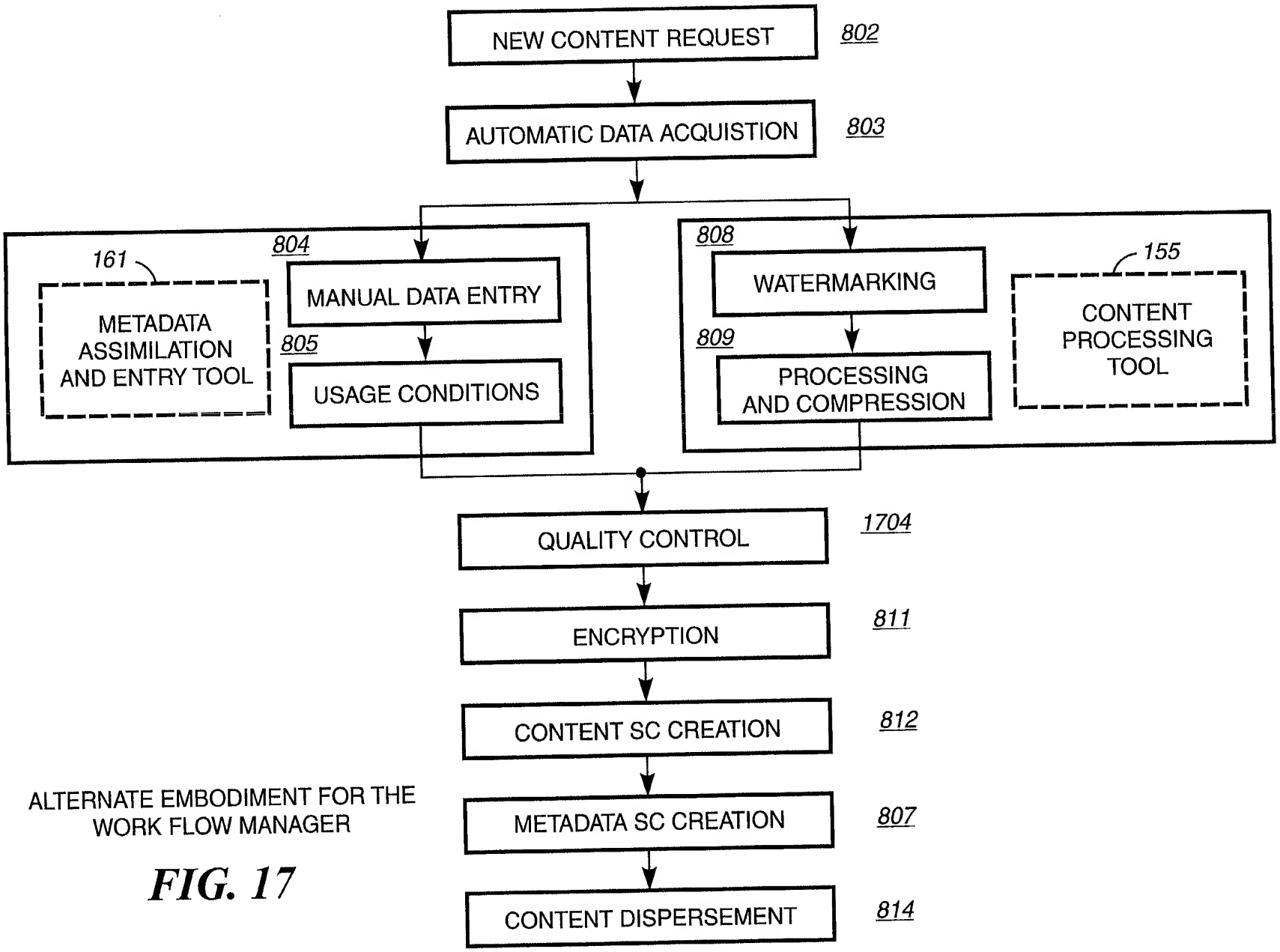


FIG. 16

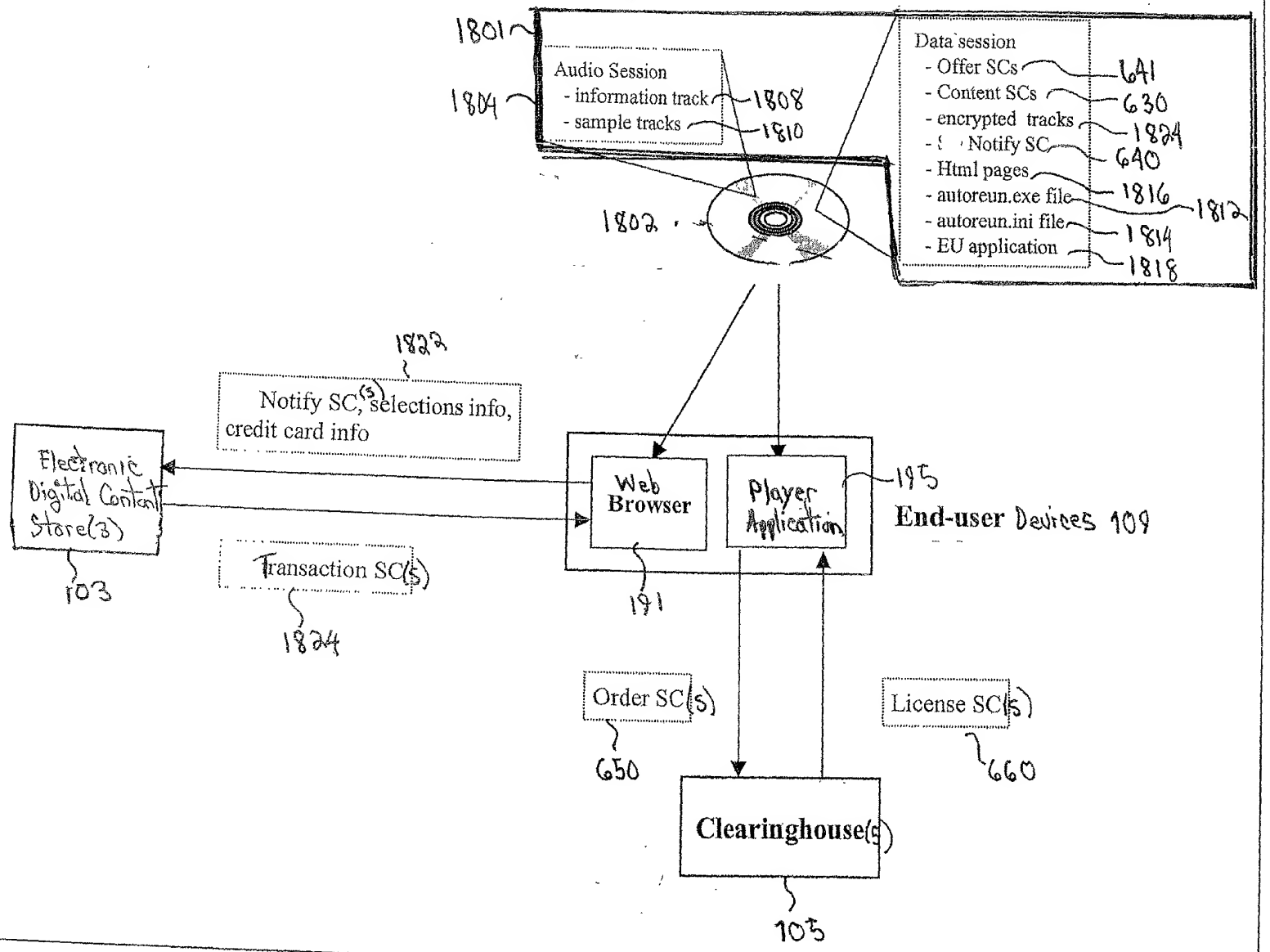
F00820 "4956066D



ALTERNATE EMBODIMENT FOR THE WORK FLOW MANAGER

FIG. 17

FIG. 18 **Buying Transaction Flow With a Super-distribution CD**



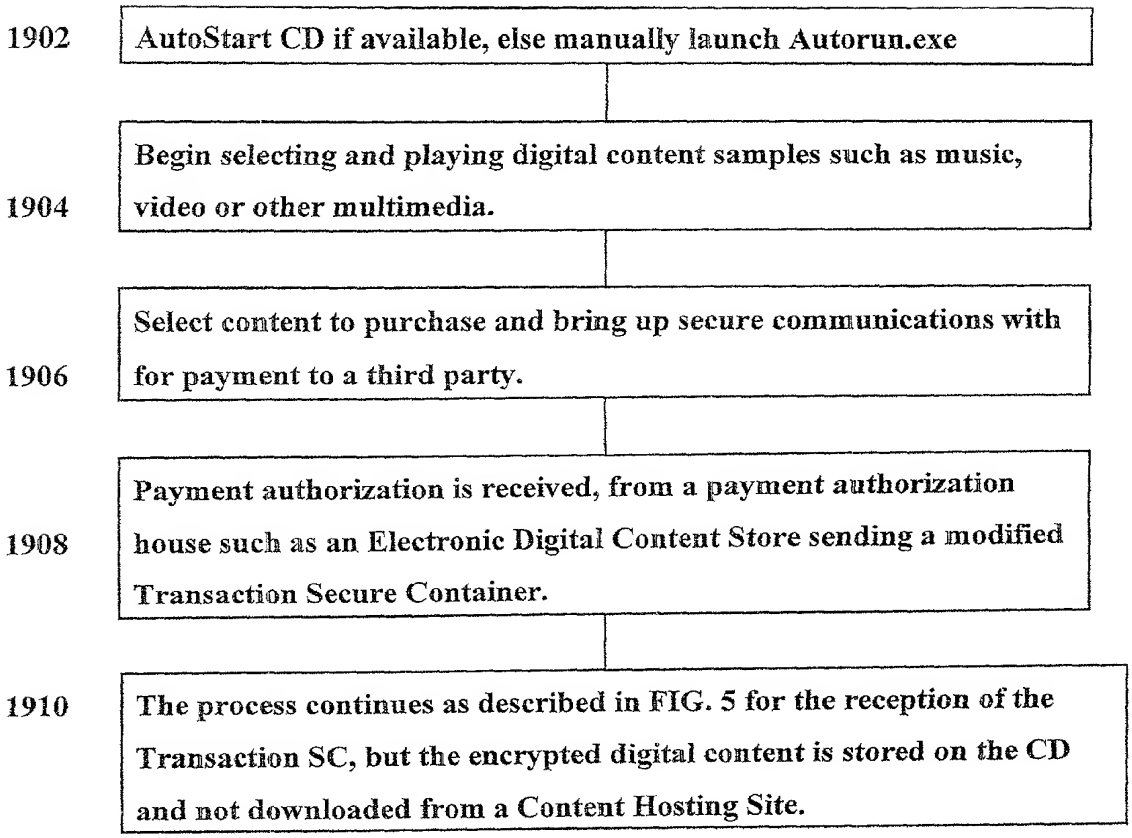

1902
AutoStart CD if available, else manually launch Autorun.exe
Begin selecting and playing digital content samples such as music, video or other multimedia.
1904
Select content to purchase and bring up secure communications with for payment to a third party.
1906
Payment authorization is received, from a payment authorization house such as an Electronic Digital Content Store sending a modified Transaction Secure Container.
1908
The process continues as described in FIG. 5 for the reception of the Transaction SC, but the encrypted digital content is stored on the CD and not downloaded from a Content Hosting Site.
1910

FIG. 19

FIG. 20

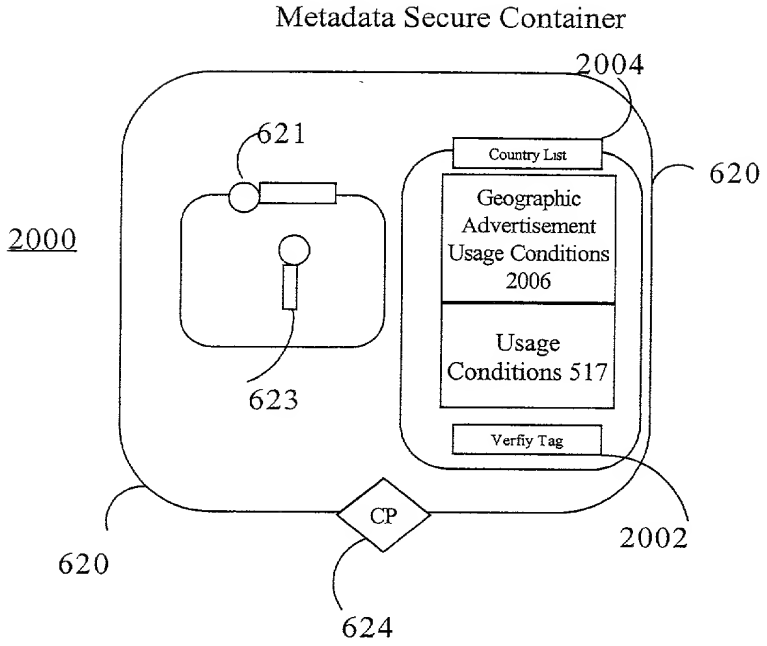

Metadata Secure Container
2004
621
Country List
620
Geographic Advertisement Usage Conditions 2006
2000
Usage Conditions 517
623
Verfiy Tag
CP
620
2002
624

FIG. 22

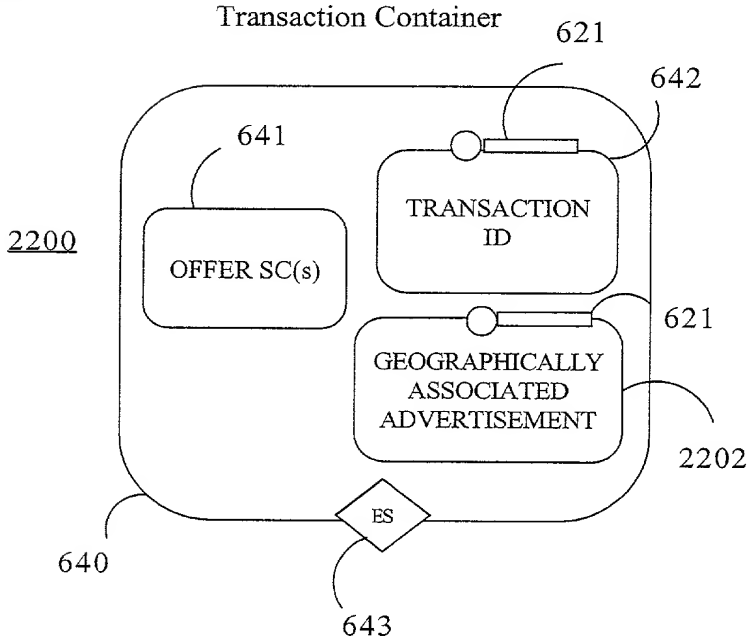

Transaction Container
621
642
641
TRANSACTION ID
2200
OFFER SC(s)
621
GEOGRAPHICALLY ASSOCIATED ADVERTISEMENT
2202
ES
640
643

FIG. 21

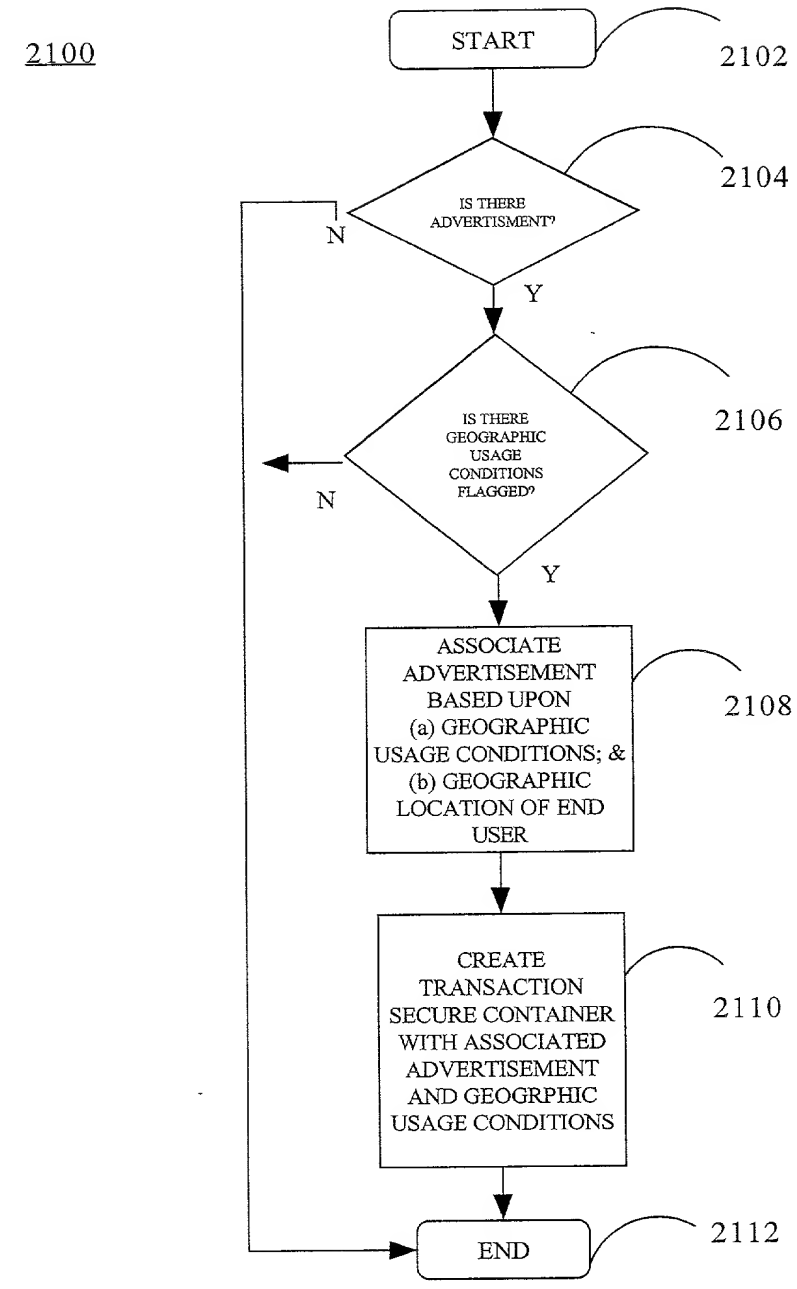
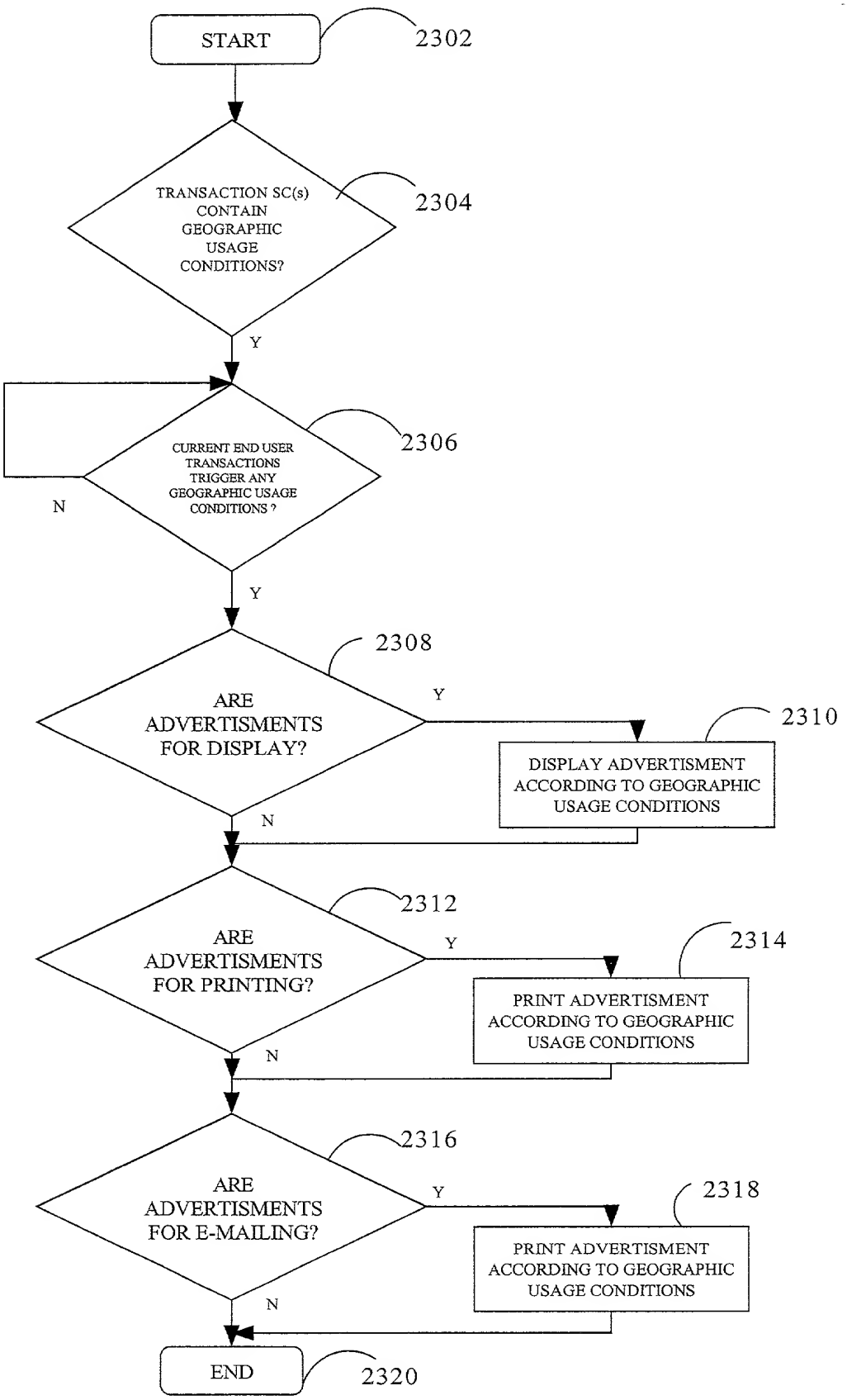

2100
START
2102
IS THERE ADVERTISMENT?
2104
N
Y
IS THERE GEOGRAPHIC USAGE CONDITIONS FLAGGED?
2106
N
Y
ASSOCIATE ADVERTISEMENT BASED UPON (a) GEOGRAPHIC USAGE CONDITIONS; & (b) GEOGRAPHIC LOCATION OF END USER
2108
CREATE TRANSACTION SECURE CONTAINER WITH ASSOCIATED ADVERTISEMENT AND GEOGRPHIC USAGE CONDITIONS
2110
END
2112

FIG. 23



Patent Application Publication Jul. 26, 2007 Sheet 23 of 24 US 2007/0174258 A1